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In the Claims:

Cancel claims 2 and 6 without prejudice.

✓ Amend claim 1 as follows:

1. A scanning device for a position measuring system for scanning a scale graduation comprising:

a probe being operatively connected with the scale graduation and being supplied with electric power over a plurality of electrical connections;

an electronic module being electrically coupled to the probe;

a housing of the electronic module for shielding the electronic module from the surroundings; and

means for limiting the supply of current to the probe, wherein at least one fuse is provided in the electrical connections, leading to the probe, within the housing, for interrupting the flow of current to the probe when the temperature produced as a result of the current flow exceeds a specific value, wherein the at least one fuse is formed by a sectional constriction of a cross section of the electrical connections and the electrical connections comprise